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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/675,220	09/29/2000	Minoru Nakano	3094/FLK	1221	
7590 05/06/2004 KATTEN, MUCHIN, ZAVIS, ROSENMAN 575 MADISON AVENUE NEW YORK, NY 10022-2585			EXAM	EXAMINER	
			EVERHART	EVERHART, CARIDAD	
			ART UNIT	PAPER NUMBER	
,			2825	<u> </u>	

DATE MAILED: 05/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/675,220	NAKANO ET AL.				
Office Action Summary	Examin r	Art Unit				
	Caridad M. Everhart	2825				
The MAILING DATE of this communication app Period for Reply	oears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty ( will apply and will expire SIX (6) MONT , cause the application to become ABAI	y be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C.§ 133).				
Status						
1) Responsive to communication(s) filed on 2-3	3-2004					
	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under b	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-11,15-17 and 22-27 is/are pending 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11,15-17 and 22-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by drawing(s) be held in abeyance tion is required if the drawing(s	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Ap rity documents have been re u (PCT Rule 17.2(a)).	olication No eceived in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Su	nmary (PTO-413)				
<ul> <li>Notice of References Cited (PTO-692)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 6-5-03.</li> </ul>	Paper No(s)/	Mail Date rmal Patent Application (PTO-152)				

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Applicant's arguments with respect to claims 1, 411,15-17,22-27 have been considered but are most in view of the new ground(s) of rejection.

Applicant has argued persuasively with respect to the prior art of record, and the rejections made in the last Office Action have been withdrawn. However, newly found prior art has been applied as follows. Applicant's arguments included that power ratios for two or more selected temperatures are predetermined and power ratios are then determined. However, claim one recites "at least one", which would include one. This argument, however, does not detract from the persuasiveness of applicant's other arguments with respect to the rejections which have been withdrawn.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 103

Claims 1-10,15-17,22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. ("Anderson")(US 6,064,799)

Anderson discloses a method in which the wafer temperture is determined by either one or by two pyrometers in order to use computer feedback control(col. 4, lines 20-35 and col. 6, lines 58-67) and the power ratios to the heaters are independently controlled by computer (col. 4, lines 14-21 and col. 5, lines 43-54, col. 7, lines 40-44, and col. 8, lines 55-58). The look up tables are predetermined by a calibration step, in which the disclosure that the temperatures of a test wafer are determined for a plurality of radial locations on the test wafer and this implied temperature determination at the center and the edges of the wafer, as various radial locations implies this(Col. 5, lines 43-48)is

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than for the process runs, in which there are either two or one temperature sensor, as indicated in the portions of Anderson already cited. The temperatures in the look-up tables are interpreted to be the target temperatures. Anderson indicates that there may be different temperature targets at the beginning and end of a process, so that these are interpreted as being the two temperatures(col. 4, lines 44-54).

Anderson is silent with respect to the details of calculations involved.

Although Anderson is silent with respect to the calculations involved, it is well known in the art how to calculate power ratios and how to interpolate the values of the data and the calculated poer ratios in order to obtain the control of the heating lamps carried out by computer as taught by Anderson. It would have been obvious to one of ordinary skill in the art at the time of the invention that the interpolation of data and the calculation of power ratios would have been carried out in computer analysis in the process taught by Anderson, because these are implied in the disclosure made by Anderson and are well known in the art.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson as applied to claim1 above, and further in view of Halpin, et al. ("Halpin")(US 6,113,702).

Anderson is silent with respect to the rotating susceptor.

Halpin is relied upon for its teaching of the details of a rotating susceptor (col. 4, lines 3-10).

It would have been obvious to one of ordinary skill in the art to have combined the rotating susceptor taught by Halpin with the disclosure made by Anderson because the benefits of the susceptor taught by Halpin would be even heating, which is desired also by Anderson.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 571-272-1892. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. Wahar

C. Everhart 5-3-2004